Resource Summary Report

Generated by nidm-terms on Aug 10, 2026

pJ4M/TDP-43

RRID:Addgene_104480
Type: Plasmid

Proper Citation

RRID:Addgene_104480

Plasmid Information

URL: http://www.addgene.org/104480

Proper Citation: RRID:Addgene_104480

Insert Name: TDP-43

Organism: Homo sapiens

Bacterial Resistance: Kanamycin

Defining Citation: PMID:29438978

Vector Backbone Description: Vector Backbone:pJ4M; Vector Types:Bacterial Expression; Bacterial Resistance:Kanamycin

Plasmid Name: pJ4M/TDP-43

Record Creation Time: 20220422T221507+0000

Record Last Update: 20260808T080333+0000

Ratings and Alerts

No rating or validation information has been found for pJ4M/TDP-43.

No alerts have been found for pJ4M/TDP-43.

Data and Source Information

Source: Addgene

Usage and Citation Metrics

We found 24 mentions in open access literature.

Listed below are recent publications. The full list is available at nidm-terms .

Guo L, et al. (2026) Defining RNA oligonucleotides that reverse deleterious phase transitions of RNA-binding proteins with prion-like domains. Molecular cell, 86(1), 114.

Copley KE, et al. (2026) Short RNA chaperones promote aggregation-resistant TDP-43 conformers to mitigate neurodegeneration. Science (New York, N.Y.), 392(6798), eadv3301.

Copley KE, et al. (2026) Isoform-specific steric zippers drive aberrant assembly and mislocalization of shortened TDP-43. Science advances, 12(26), eady0256.

Elmaleh B, et al. (2026) The ALS-associated E425K mutation uncouples DNAJC7 from the Hsp70 chaperone cycle. The FEBS journal, 293(12), 3485.

Aikio M, et al. (2025) Opposing roles of p38?-mediated phosphorylation and PRMT1-mediated arginine methylation in driving TDP-43 proteinopathy. Cell reports, 44(1), 115205.

Oh J, et al. (2025) Engineering a membrane protein chaperone to ameliorate the proteotoxicity of mutant huntingtin. Nature communications, 16(1), 737.

Zibold J, et al. (2024) The new missense G376V-TDP-43 variant induces late-onset distal myopathy but not amyotrophic lateral sclerosis. Brain : a journal of neurology, 147(5), 1768.

Hayashi M, et al. (2024) Engineered NLS-chimera downregulates expression of aggregation-prone endogenous FUS. Nature communications, 15(1), 7887.

Minshull TC, et al. (2024) Hydrogen-Deuterium Exchange Mass Spectrometry Reveals Mechanistic Insights into RNA Oligonucleotide-Mediated Inhibition of TDP-43 Aggregation. Journal of the American Chemical Society, 146(49), 33626.

Lynch EM, et al. (2024) Seeding competent TDP-43 persists in human patient and mouse muscle. bioRxiv : the preprint server for biology.

Ervilha Pereira P, et al. (2023) C-terminal frameshift variant of TDP-43 with pronounced aggregation-propensity causes rimmed vacuole myopathy but not ALS/FTD. Acta neuropathologica, 145(6), 793.

Pérez-Berlanga M, et al. (2023) Loss of TDP-43 oligomerization or RNA binding elicits distinct aggregation patterns. The EMBO journal, 42(17), e111719.

Abayev-Avraham M, et al. (2023) DNAJB6 mutants display toxic gain of function through unregulated interaction with Hsp70 chaperones. Nature communications, 14(1), 7066.

Riemenschneider H, et al. (2023) Targeting the glycine-rich domain of TDP-43 with antibodies prevents its aggregation in vitro and reduces neurofilament levels in vivo. Acta neuropathologica communications, 11(1), 112.

Ma XR, et al. (2022) TDP-43 represses cryptic exon inclusion in the FTD-ALS gene UNC13A. Nature, 603(7899), 124.

Shen H, et al. (2022) Sexually dimorphic RNA helicases DDX3X and DDX3Y differentially regulate RNA metabolism through phase separation. Molecular cell, 82(14), 2588.

Peinado JR, et al. (2022) Sequestration of TDP-43216-414 Aggregates by Cytoplasmic Expression of the proSAAS Chaperone. ACS chemical neuroscience, 13(11), 1651.

Hallegger M, et al. (2021) TDP-43 condensation properties specify its RNA-binding and regulatory repertoire. Cell, 184(18), 4680.

Perdikari TM, et al. (2020) SARS-CoV-2 nucleocapsid protein undergoes liquid-liquid phase separation stimulated by RNA and partitions into phases of human ribonucleoproteins. bioRxiv : the preprint server for biology.

Perdikari TM, et al. (2020) SARS-CoV-2 nucleocapsid protein phase-separates with RNA and with human hnRNPs. The EMBO journal, 39(24), e106478.